ASSIGNMENT

Date:18-6-2025
Tech stack :PYTHON
Topic : FUNCTIONS
Task: Prepare a document on Functions with examples

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# function in python:-
# block of the code that can be reuseable when ever we want to use it.
# Function is nothing but a way to Organize your code in affeciency way
or in a better way
# ----------------------
xyz = 100
abc= 100
print(xyz+abc) #100
# ----------------------
#function Decleration
def add(): #function Decleration
    a = int(input("Enter a number: "))
    b = int(input("Enter a nunber: "))
    print(a+b)
add() # Function calling
# #Output:
# Enter a number: 124
# Enter a nunber: 567
# 691
#-------------------------------
# multiplication
def mul():  #function Decleration
    a = int(input("Enter a number: "))
    b = int(input("Enter a nunber: "))
    print(a*b)
mul() # Function calling
# #output:
# Enter a number: 2
# Enter a nunber: 3
# 6
#-------------------------------
# Given single argument Single Identifier

def simple_intrest(x):  # x is parameter "param"
    print(x)
simple_intrest(10) # 10 is argument or " agr "
```

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#Output : 10
#-------------------------------------------------
#Calculating the Simple intrest
def Simpleintrest(x,y,z):
    print(x*y*z / 100)
Simpleintrest(100000,12,2) #Should be same data types
#output: 24000.0
#-----------------------------------------
#login
def login(x,y):
    email = input("Enter the email:-")
    pswrd = input("Enter the pswrd")
    if x == email and pswrd == y:
        print("you have logged in successfully!!!")
    else:
        print("Invalid credentials")
login("Shiva@gmail.com","12345678")
#Output:
# Enter the email:-Shiva@gmail.com
# Enter the pswrd12345678
# you have logged in successfully!!!
```

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#-------------------------------------------------
# Giving Default Parameter
def abc(xyz = 100):
    print (xyz)
abc()
#output : 100
#-------------------------------------------------
# params with out values should be default frount
def abc(xyz=100,a=20,c):
    print(xyz+a+c)
abc(1)
# error
#     def abc(xyz=100,a=20,c):
#                         ^
# SyntaxError: parameter without a default follows parameter with a
default
#-----------------------------------------------------------------------
#write a program to print sum of even and odd
# range 1-10
def sum(x,y):
    sumeven = 0
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    sumodd = 0
    for i in range(x,y+1):
        if i % 2 == 0:
            sumeven += i
        else:
            sumodd += i
    print(sumeven,"even_Sum")
    print(sumodd,"odd_Sum")
sum(1,10)
#output:
#30 even_Sum
# 25 odd_Sum
#----------------------------------------
#Print String
def strprint(str):
    for char in str:
        print(char,end=" ")
strprint("shivakumar")
#output:
#s h i v a k u m a r
#----------------------------------------
#print revString
def strRevprint(str):
    for char in range(len(str)-1,-1,-1):
        print(str[char],end=" ")
strRevprint("shivakumar")
#output: r a m u k a v i h s
#----------------------------------------
#print vowels in the string
def name(str,vowels):
    str_vowels = ""
    for char in str:
        if char in vowels:
            str_vowels += char
    print(str_vowels)
name("shivakumar","AEIOUaeiou")
#output: iaua
#----------------------------------------
#print if type is str and length of str is > 4 in a list
def list_str(x):
    for i in x:
        if type(i) == str and len(i)>4:
            print(i)
```

```
list_str([1,2,3,"vamsi",True,False])
#output vamsi // here Flase is a boolen value i does not consider as a
string
#-------------------------------------------------------------------------------
```

```
# Function with return and with out return
# the return used to store the any value of a function block to the function
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```
def add():
    a=10
    b=20
    return a+b
a=add()
print(a) # 30
```